

Solar Active Region diagnostics with SOHO/CDS

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SOHO/CDS observations of active regions are presented. The relation between the structures as seen in the higher corona and those at lower heights, in the transition region and chromosphere, is studied. The potential of the CDS instrument for plasma diagnostics is fully exploited, applying various techniques to determine the plasma characteristics across the active regions. In particular, temperatures and densities in the corona and in the transition region are determined. Element abundances are also studied, with the use of a differential emission measure analysis.